

Raaha Sellamuthu

I aspire to become a cardiothoracic surgeon-scientist, administering life-saving procedures and researching innovative tissue engineered solutions.

EDUCATION

West Shore Jr/Sr High School, Melbourne Fl

May 2027

- 12 AP Courses: AP Biology, AP Chemistry, AP Physics I, AP Calculus AB, AP Microeconomics, AP Language and Composition, AP Capstone Seminar, AP Computer Science Principles, AP World History, AP Precalculus, AP Spanish Language and Culture, AP US History
- Honor Societies: Mu Alpha Theta, National Honor Society, Spanish Honor Society, Tri-M Music Honor Society
- AP Capstone Program
- Unweighted GPA: 4.0
- Weighted GPA: 4.57
- Class Rank: 1/138
- 1550 SAT/35 ACT

EXTRA CURRICULAR ACTIVITIES

Mindcare Medics— *President/Founder*

April 2025 - PRESENT

- Centered on educating the community about maintaining brain health, breaking the stigma against Alzheimer's and related dementias, and fundraising to support caregivers and local aging nonprofits (40 wks/yr and 1-2 hours/week)
 - reached ~ 700 individuals in total via social media, student outreach events, and intergenerational classes
- Hosted outreach event for ~200 Juniors and Freshmen from West Shore with 2 guest speakers and hands-on activities exploring the effects of aging
- Partnered with the Health First Memory Disorder Clinic and the One Senior Place to host 9 intergenerational classes connecting high school students with ~67 seniors
- Fundraised \$310 via a Holiday Bake Sale and Spring Festival Booth; approximately \$150 of earnings were donated to Meals on Wheels program at Aging Matters
- Hosted a booth at Baba Senior Outreach Walk and Show event to raise community awareness about our intergenerational classes ~ 50 seniors reached

Vascular Tissue Engineering Research - *Student Volunteer*

September 2024-PRESENT

- Collaborated with FIT professor Dr. Bashur to advance biomedical research, focusing on promoting the endothelialization and long-term patency of vascular tissue-engineering grafts

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SKILLS

Leadership
Communication
Programming in pseudocode
Team Work

AWARDS

National Merit
Commended* (as of right now)

1st Place Precalculus
Division at District
Math Tournament

Golden Seal of
Biliteracy in Spanish

1st Place Spanish III
at Brevard Spanish
Spelling Bee

3rd Place Brevard
Science Fair in
Cellular and
Molecular Biology
and Biochemistry
category (2026)

Received an \$84,000
scholarship to FIT
based on promised
potential (2026)

2x 100 hours of
community service
reward recipient

Top Student in Civics,
Geometry, Algebra II,
AP Calc AB, AP
Spanish Lang. &
Culture

5x Honor Roll (4.0

- Most recent project focused on developing pH-responsive particles that can deliver pro-angiogenic substances such as carbon monoxide in acidosis conditions in the context of ischemia returning or developing in the graft itself
- Conducted laboratory experiments, including synthesizing particles and operating lab equipment; data analysis; and contributed to project development aimed at improving vascular graft materials for medical applications
- Working on an individual contribution to bioprinting project this summer (more details will be shared at the end of the summer)
- 35 wks/yr and 6-8 hours/week

Health Occupations Students of America–Future Health Professionals (HOSA-FHP) – Treasurer

August 2025-PRESENT

- 2026 International Competitor for Clinical Specialty; two-time state competitor for Dental Terminology event and Clinical Specialty presentation on geriatricians
- Raised \$475 via a “Pie a Teacher” event, water balloon dodgeball at a Spring Festival, and Crumbl Cookie fundraiser to help cover competition fees
- Participated in a workshop to learn CPR and how to perform an EKG test
- 32 wks/yr and 1 hour/week

Future Problem Solvers (FPS) – Student Coach/Competitor

August 2021-PRESENT

- Two-time International Individual competitor (2024/2025), resolving 6-step socio-economic future scene scenarios within strict 2-hour limits
- Qualified for the 2026 International Conference for a Community Problem Solving Project spreading awareness about nitrogen pollution in the Indian River Lagoon
 - Designed educational workshops for 100+ elementary students, managed social media account, and coordinated with school administrators
- Trained new students on using the 6-step problem solving process to complete a booklet (evaluated practice booklets and taught content)
- 25 wks/yr and 2-3 hours/week

Music – Indian Carnatic Singer, Violinist, Pianist

August 2021-PRESENT

- Learned Indian Carnatic singing for 10 years and performed at multiple religious venues
- Five-time All County violinist and two-time All State violinist (one of the top 32 violins in Florida); learned violin for 6 years; part of Brevard String Academy Premier Orchestra which won 1st place at National Orchestra competition (ASTA)
 - performed at Steimetz Hall in Orlando before an Orlando Philharmonic concert
 - Top 5 in a Concerto competition (April 2026)
- Two-time state honors piano recital performer (top 15 student pianists in state)
- 40 wks/yr and 4-6 hours/week

GPA)

LANGUAGES

Fluent in
Tamil/English

Conversational
Spanish

SUMMER

ENRICHMENT

FSU SSTRIDE

Summer Institute

Participant: (June 2025)

Further explored my passion for the medical field by shadowing an open heart surgery, learning clinical skills, performing a heart dissection, and completing a [team research project](#).

HOBY Florida-East

Participant (June 2025)

Nominated by West Shore to attend leadership seminar through 3 phases: Personal, Group, and Service.

UF SSTP (2026)

Selected as one of the top 10-11% of applicants to attend a seven-week research program where participants conduct research in a field of

COMMUNITY SERVICE/VOLUNTEER EXPERIENCE

Health First Holmes Regional Medical Center, Melbourne — *Music MDs Training Officer/Musician & Emergency Room Volunteer*

March 2024 - PRESENT

- MusicMDs: Perform therapeutic classical music for patients in a local hospital to reduce the stress associated with healthcare settings and promote their well-being; train new volunteers on proper etiquette when interacting with patients.
- ER: Restock supplies in patient rooms and serve as an advocate for patient needs, often communicating with physicians and nurses
- 40 wks/yr and 4-7 hours/week (168 hours total)

Baba Senior Outreach, Melbourne — *Intergenerational Outreach Committee President*

March 2026 - PRESENT

- Connected with nursing homes such as Buena Vista and plan on hosting weekly sessions starting summer of 2026 (performing music for Alzheimer's patients/tips with technology for assisted living facilities)
- Created [video](#) highlighting experiences and hardships of seniors in the community that was featured at Baba Walk and Show event
- Helped sort and deliver food donations for local seniors
- 40 wks/yr and 3 hours/week

Manav Mandir, Melbourne — *Indiafest Student Choreographer*

January 2025 - PRESENT

- Choreographed two cultural Bollywood dance routines for elementary school students
- Taught students the dance, ran weekly rehearsals, and prepared students for on-stage performance
- Students performed at 2 different venues
- 15 wks/yr and 4 hours/week

interest, write a research paper, give two research talks, and present a research poster.

Certifications

STOP THE BLEED - American College of Surgeons: (June 2025)

Learned how to recognize and stop life-threatening bleeding during emergencies by applying direct pressure, packing wounds, and using a tourniquet.

Brain Health Peer Educator - Hilarity for Charity (HFC): (November 2025)

Passed knowledge and presentation evaluations on the five main brain health habits. Used skills learned to educate students and the community via outreach events.